

Quick Summary

Durasyn® Polyalphaolefins

DURASYN® POLYALPHAOLEFINS (PAO)

INEOS is the world's largest merchant marketer of polyalphaolefins (PAO) synthetic fluids under the trade name Durasyn. INEOS has Durasyn PAO production plants in LaPorte (Texas, USA) and in Feluy (Belgium). Both sites are integrated with INEOS' linear alpha olefin product line, which provides the feedstock for the production of Durasyn fluids.

Durasyn polyalphaolefin synthetic fluids have greater film thickness at high temperatures than comparable mineral oils. This fact results in superior high temperature protection for equipment lubricated with polyalphaolefin-based synthetic lubricants. Lubricants containing Durasyn polyalphaolefin also achieve full lubrication more quickly at low temperatures than comparable mineral oil-based lubricants due to the superior low temperature viscometrics and low pour points of PAOs. This is an important performance benefit given that a high percentage of component wear occurs during cold equipment start-up.

PAO-based synthetic lubricants are highly shear stable and are generally acknowledged to have better thermal / oxidative stability than comparable mineral oil-based lubricants. Improved oxidation resistance yields lower viscosity increase in service and reduces the deposit and varnish forming tendencies of lubricants.

Durasyn PAO's are used in a wide variety of industrial and automotive applications including passenger car motor oils, lubricants for wind turbines, heavy-duty diesel engine oils, fiber optic cable compounds, transmission fluids, compressor oils, hydraulic oils, and gear oils. Durasyn PAOs are also authorized for use as components of food grade lubricants and are registered with the National Sanitary Foundation (NSF) under H-1 and HX-1 classifications.

The INEOS polyalphaolefin business has a global presence with regional commercial teams located in League City (Texas, USA), Rolle (Switzerland) and Singapore. We employ an experienced and professional network of local sales staff and local distributors to assure true global reach.

The main Durasyn products are:

1-Decene (C ₁₀) based	Durasyn 162, 164, 166, 168, 170
1-Dodecene (C ₁₂) based	Durasyn 145, 146*, 147*, 148
Mixed Alphaolefin based	Durasyn 125, 126*, 127*, 128
High Viscosity 1-Decene (C ₁₀) based	Durasyn 174-I, 180-R, 180-I
Specialty Grades	Durasyn 164-X*, 166-X

*Not available in all regions

Technical data sheets, safety data sheets, and additional information for all these products are available at our website: www.ineosoligomers.com or www.ineos.com

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